Likelihood of exposure for an individual performing in vitro work

Laboratory Procedure: _____

Likelihood of Inhalation Exposure:	**Values:**
(Inhalation + Quality of Material) / 2 =	

Likelihood of Percutaneous Exposure:	
(Percutaneous + Quality of Material)/ 2 =	

Likelihood of Direct Contact Exposure:	
(Contact + Quality of Material)/2 =	

Likelihood of Ingestion Exposure:	
(Ingestion + Quality of Material)/2 =	

Quality and Quantity of Infectious Material

(QL + QN)/ 2 =		
What type of material will be used in this procedure (or in this assessment)? Purified biolgical materials = 4, Diagnostic samples (e.g. blood or tissue) = 2 or Environmental samples (e.g. soil or water) = 1	QL =	

What is the volume of material to be used in this procedure (or in this assessment)? Over 10 liters = 4, up to 10 liters = 2 or militer volume = 1	QN =	

Inhalation

(IE 1 + IE 2)/2 =		
What is the potential for aersols to be generated as a byproduct of this procedure (e.g. pipetting, sonication, ect)? A notable potetial for generation of aerosols = 4, a limited quantity of aersols may be produces = 1, no procedures in use which may generate an aersol = 0	IE 1 =	
What is the potential for an accidental release of agent? Agent used in procedure = 4, agent in storage and not used = 1	IE 2 =	
Is primary containment used for all work with the agent? No primary containment exists = 0, primary containment exists but is used only periodically or improperly, primary containment is always used and devices are validated/certified and well maintained = 4	*IM 1 =*	
What type of respiratory protection is used? No respiratory protection exists or is used = 0, Respirators exist by there is no formal respiratory protection program = 1, Respiratory protection is used and there is a formal respiratory protection program = 4	*IM 2 =*	

Percutaneous

(PE 1 + PE 2)/2 =		
What is the volume of sharps used in this procedure? A large volume of sharps in use = 4, a small volume of sharps = 3, there are no sharps in use in this procedure = 0	PE 1 =	
What is the volume of breakable material or items with sharp edges in this laboratory? A large amount of breakable material = 4, a small amount of breakable material = 3, there is not breakable material or items with sharp edges in this laboratory = 0	PE 2 =	
How are sharps handled? Sharps are never hanndled directly by han (mechanical systems are always used) = 3, Sharps are rarely handled by hand = 2, sharps are handled by hand = 0	*PM 1 =*	
What type of gloves are in use while handling sharps? No gloves = 0, a single pair of latex or nitrile type gloves = 1, two pairs of latex or nitrile type gloves = 3, heavy duty gloves like leather or thick rubber = 3	*PM 2 =*	

Contact

(CE 1+ CE 2 + CE3)/3 =		
What is the potential and extent of a splash or spill in the laboratory? There is a potential for a high pressure sustained release of infectious material = 4, there is a potential for a spill or splash = 2, material does not exist in a spillable form in the laboratory = 0	CE 1 =	
How easy are the surfaces in the laboratory to decontaminate? Surfaces are very difficult to decontaminate (wood, grout, etc) = 4, surfaces may have edges that are difficult to decontaminate = 2, all surfaces can be decontaminated = 0	CE 2 =	
How is contaminated waste stored in the laboratory? No standard contaminated waste storage containers exist and waste is not stored to best practices = 4, contaminated waste stored properly and handled according to best practices = 1, there is no contaminated waste in laboratory = 0	CE 3 =	
How is material handled? Material never handled directly by hand = 4, material is rarely handled by hand = 2, material is handled by hand = 0	*CM 1 =*	
What type of gloves are in use? No gloves = 0, a single pair of latex or nitrile type gloves = 3, two pairs of latex or nitrile type gloves = 4	*CM 2 =*	
What type of laboratory clothing is worn? No gowns or protective covering worn = 0, gowns or lab coats are worn over street cloths = 3, personnel wear dedicated laboratory clothes = 4	*CM 3 =*	
What type of protective eyewear is used in this laboratory? No eyewear protection used = 0, personnel wear safety glasses = 1, personnel wear goggles or a face shield = 3, personnel wear goggles and a face sheild = 4	*CM 4 =*	
What type of shoes are worn in the laboraotry? Persons can wear open toed shoes in the laboratory = 0, persons must wear closed toed shoes = 1, solid shoes are worn = 2, shoe covers are worn over solid shoes = 3, laboratory specific solid shoes are worn = 4	*CM 5 =*	

Ingestion

((GI 1 + GI 2)/2 =		
What is the potential and extent of a splash or spill in the laboratory? There is a potential for a high pressure sustained release of infectious material = 4, there is a potential for a spill or splash = 2, material does not exist in a spillable form in the laboratory = 0	GI 1 =	
What is the potential for an accidental release of agent? Agent used in procedure = 4, agent in storage and not used = 1	GI 2 =	
How is material handled? Material never handled directly by hand = 4, material is rarely handled by hand = 2, material is handled by hand = 0	*GM 1 =*	
What type of gloves are in use? No gloves = 0, a single pair of latex or nitrile type gloves = 3, two pairs of latex or nitrile type gloves = 4	*GM 2 =*	
Are face shield or masks worn? Personnel do not wear any face protection = 0, surgical maskes are used to protect mouth/nose from contact = 3, face shields are always used to protect the mouth/nose from contact = 4	*GM 3 =*	